Contents Volume 83 (1993)

Vol. 83, No. 1 (August 12, 1993)

Membrane-based gas separation
W.J. Koros (Austin, TX, USA) and G.K. Fleming (Newport, DE, USA) 1

Composite reverse osmosis and nanofiltration membranes
R.J. Petersen (Minneapolis, MN, USA) 81

Vol. 83, No. 2 (August 26, 1993)

Roles of bimolecular interaction and relative diffusion rate in membrane structure control
T.-H. Young and L.-W. Chen (Taipei, Taiwan) 153

Ultrafiltration in a tubular membrane under simultaneous action of pulsating pressures in permeate and feed solution
N.D. Nikolov, V. Mavrov and J.D. Nikolova (Bourgas, Bulgaria) 167

Prediction of the flux through an ultrafiltration membrane using fuzzy mathematics
P. Vaija (Espoo, Finland), J. Randon, A. Larbot and L. Cot (Montpellier, France) 173

Adsorption, diffusion and permeation of gases in microporous membranes. III. Application of percolation theory to interpretation of porosity, tortuosity, and surface area in microporous glass membranes
A.B. Shelekhin, A.G. Dixon and Y.H. Ma (Worcester, MA, USA) 181

Influence of casting solution additive, degree of polymerization, and polymer concentration on poly(vinyl chloride) membrane properties and performance
H. Okuno, K. Renzo and T. Uragami (Osaka, Japan) 199

Partially sulfonated poly(arylene ether sulfone) – A versatile proton conducting membrane material for modern energy conversion technologies
R. Nolte, K. Ledjeff, M. Bauer and R. Mülhaupt (Freiburg, Germany) 211

Permporometry study on the size distribution of active pores in porous ceramic membranes
G.Z. Cao, J. Meijerink, H.W. Brinkman and A.J. Burggraaf (Enschede, The Netherlands) 221

Meeting Announcement 237
Meetings Calendar 238
Author Index Volume 83 (1993) 240
Subject Index Volume 83 (1993) 241